

PROJECT NO. HSIP-6-6(161)
CONTROL NO. 13093
CITY OF LINCOLN
STATE OF NEBRASKA, DEPARTMENT OF ROADS
RELOCATION OF EXISTING WATERLINE FACILITIES

THIS AGREEMENT, made and entered into, by and between the City of Lincoln, hereinafter referred to as the "City", and the State of Nebraska, Department of Roads, hereinafter referred to as the "State".

WITNESSETH:

WHEREAS, the State has construction plans for the improvement of Nebraska Highway US-6 at the intersection of SW 40th Street, in Lincoln, NE, and

WHEREAS, said construction will be undertaken under the project designation HSIP-6-6(161), and

WHEREAS, the City owns and operates existing water line utility facilities along and adjacent to a portion of this project, and

WHEREAS, because of the widened right of way which the State has acquired for the new construction, and because of the construction itself, it becomes necessary for the City to adjust some, if not all, of its water facility along this project, and

WHEREAS, the City is willing to rehabilitate its facility where necessary in accordance with the conditions hereinafter provided in this Agreement, and

WHEREAS, the State is willing to pay the City for its eligible nonbetterment costs incurred in connection with the rehabilitation of its facilities as provided by Federal-Aid Policy Guide 23 CFR 645A, "Utility Relocations, Adjustments and Reimbursement", and Federal-Aid Policy Guide, 23 CFR 645B, "Accommodation of Utilities" issued by the Federal Highway Administration,

NOW THEREFORE, in consideration of these facts, the parties hereto agree as follows:

SECTION 1. The City hereby agrees to furnish, or cause to be furnished, all of the tools, labor, equipment and materials necessary for the rehabilitation of its facility as made necessary by construction.

SECTION 2. The description of work to be performed and the estimate of costs prepared by the City have been approved by the State and are hereby made a part of this agreement. These items are attached as Exhibit "B". The total amount of this estimate is \$291,473.23 of which \$262,325.91 is the share of the cost chargeable to the State. It is expressly understood that

notwithstanding this estimate the State will reimburse the City for 90% of its actual nonbetterment expenses less any credits for salvaged or junked materials.

SECTION 3. The City agrees, as a part of the above described estimate, to advise the State as to the method which will be used in accumulating the City's costs. If this method is prescribed by a Federal or State regulatory body, a statement to that effect shall be made by the City. If the accounting method is not prescribed by an agency of the State or Federal Government, it shall be described in the City's estimate and be approved as a part of this agreement.

SECTION 4. The City may submit progress billings for the portions of its rehabilitation that have been completed. The City agrees not to submit progress billings for amounts less than \$2,500.00. The State will make progress payments, based upon satisfactory prosecution of work, for 95 percent of the amount billed. The State will limit its payments to 95 percent of the approved estimate referenced in Section 2 of this agreement pending the results of the final cost audit. The State will make every effort to pay the City within thirty days of receipt of the City's invoice.

SECTION 5. If the City wants to let a construction contract, the City shall do the following:

- A. Comply with State public bidding statutes. If the City solicits bids from a list of known contractors, the list must be submitted to the State for concurrence prior to the soliciting of bids.
- B. Submit the bid proposal, plans and construction schedule to the State for approval prior to letting a contract.
- C. Require the contractor to abide by the provisions of the Nebraska Fair Employment Practices Act as provided by Neb.Rev.Stat. §48-1101 through 48-1126 (Reissue 2004), as amended, and all regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation, Title 49 CFR, Parts 21 and 27 as set forth in Exhibit "A" attached hereto and made a part of this agreement.
- D. Submit a copy of the bids received and the City's recommendation of award to the State for concurrence prior to any award.
- E. Require any contractor or subcontractor engaged under this agreement to fully comply with the provisions of the Nebraska Employment Security Law as provided by Neb.Rev.Stat. §48-601 through 48-671 (Reissue 2004), as amended, and the same are incorporated herein by this reference.

SECTION 6. It is agreed and understood by the parties hereto that Federal-Aid Policy Guide 23 CFR 645A, "Utility Relocations, Adjustments and Reimbursement", and Federal-Aid Policy

Guide, 23 CFR 645B, "Accommodation of Utilities" issued by the U.S. Department of Transportation, Federal Highway Administration, as supplemented, revised or updated heretofore, is hereby expressly made a part of and incorporated into this agreement by this reference.

SECTION 7. In consideration of the payment as mentioned in Section 2 of this agreement the City agrees to relinquish or subordinate sufficient property rights or interests that it may have in property upon which it has an easement or similar right that will be occupied by the proposed highway improvement as are necessary for the construction, operation and maintenance of the highway facility.

SECTION 8. All traffic controls must comply with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). If the State furnishes the City a traffic control plan, the City must comply with the plan. The State has the right to shut down a City work area not in compliance with the Manual on Uniform Traffic Control Devices.

SECTION 9. The City shall comply with the regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation, Title 49 CFR, Parts 21 and 27, as set forth in Exhibit "A" attached hereto and hereby made a part of this agreement.

SECTION 10. The City agrees that it and any contractor or subcontractor engaged under this agreement will fully comply with the provisions of the Nebraska Employment Security Law as provided by Neb.Rev.Stat. §48-601 through 48-671 (Reissue 2004).

SECTION 11. The City agrees that the billing will be prepared and submitted in a manner to allow comparison with the approved estimate.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their proper officials thereunto duly authorized as of the dates below indicated.

EXECUTED by the _____ this _____ day of _____, 20____.

ATTEST: _____ City of Lincoln

City Clerk

Mayor

EXECUTED by the State this _____ day of _____, 20____.

STATE OF NEBRASKA
DEPARTMENT OF ROADS

Utilities Engineer

Planning and Project Development Engineer

NONDISCRIMINATION CLAUSES

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

- (1) Compliance with Regulations: The Contractor will comply with the Regulations of the Department of Transportation relative to nondiscrimination in federally assisted programs of the Department of Transportation (Title 49, Code of Federal Regulations, Parts 21 and 27, hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- (2) Nondiscrimination: The contractor, with regard to the work performed by it after award and prior to completion of the contract work, will not discriminate on the basis of disability, race, color, sex, religion or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix "A," "B," and "C" of Part 21 of the Regulations.
- (3) Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the ground of handicap, race, color or national origin.
- (4) Information and Reports: The contractor will provide all information and reports required by the Regulations, or orders and instructions issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State Highway Department or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the State Highway Department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the State Highway Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including but not limited to,
 - (a) withholding of payments to the contractor under the contract until the contractor complies, and/or
 - (b) cancellation, termination or suspension of the contract, in whole or in part.
- (6) Incorporation of Provisions: The contractor will include the provisions of paragraph (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, order, or instructions issued pursuant thereto. The contractor will take such action with respect to any subcontract or procurement as the State Highway Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the State to enter into such litigation to protect the interests of the State, and in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

EXHIBIT "A"

October 24, 2013

Mr. Tom Thompson
Utilities Coordinator
Planning & Project Development
Nebraska Department of Roads
PO Box 94759
Lincoln, NE 68509-4759

RE: SW 40th Street Water Main Relocation
City of Lincoln Project 701718
NDOR Project No HSIP-6-6(161)

Dear Mr. Thompson:

The City of Lincoln received a questionnaire concerning the utility relocation for the referenced project. In response to the questionnaire, the City's intent for the relocation of the water line is summarized in this letter as follows:

1. A portion of the water utility (16" water main) will need to be relocated to minimize any conflict with the proposed storm sewer construction.
2. It is anticipated that plans for the relocation of the water utility can be completed by October 2013 and will be prepared by HDR Engineering.
3. It is the intent to occupy the NDOR ROW for the water line relocation.
4. It is anticipated that the project can be bid in November 2013 with a notice to proceed for construction given in January 2014.
5. The completion of the work should occur within 90 days.
6. The City of Lincoln will contract for the completion of the water line relocation.
7. There are no special conditions anticipated which would delay the relocation of the water line as planned.

The existing water line has previously been shown on existing documents to be beyond the proposed roadway improvement. The potential for conflict with the proposed storm sewer improvements associated with the roadway improvement was observed. To further define the existing location of the water line located along U.S. Highway 6 and east of SW 40th Street, four (4) locations along the proposed NDOR project were vacuum excavated to locate the water line horizontally and vertically. This work was completed on Friday, September 6, 2013. Information secured from the exploration was plotted on the plans for the proposed NDOR roadway improvements. The water line was found to be farther away from the proposed storm sewer than previously shown in some areas and closer in others. Based upon the location of the water line at the four locations, the location of the water line between the points was extrapolated. The locations along the roadway where it was determined that the water line should be relocated were identified. The criteria considered to determine the need for water line relocation included: Elimination of conflicts between the water line and proposed storm sewer crossings;



Exhibit "B"

Mr. Tom Thompson
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the ability to provide for future maintenance of the water line without significant interference due to the close proximity of the roadway or storm sewer; the ability to construct the roadway improvements without conflict with the water line; and the ability to relocate the utility without impacting other existing utilities along the roadway improvement project.

The goal for the separation distance between the water line and proposed storm sewer would normally be ten feet as stipulated by the State of Nebraska Department of Health and Human Services (NSHHS) for new construction of water lines and storm sewer lines. After consultation with the NSHHS, it was determined that the existing water line can remain at a separation distance less than prescribed based upon the water line existing prior to the construction of the new storm sewer improvements. The Lincoln Water System has determined that the available separation distance which will exist with the current location of the water line and the proposed storm sewer improvements will be adequate except as identified to be relocated. The proposed work to occur for the relocation of the water main and ancillary items is as follows.

- Station 180+45 – Relocate hydrant 25 feet beyond proposed pavement.
- Station 180+65 - Loop water main under proposed culvert.
- Station 183+75 - Relocate hydrant to 25 feet beyond proposed payment.
- Station 187+50 - Relocate fire hydrant to 2 feet beyond curbed roadway.
- Station 188+55 - Begin relocation of water past storm sewer inlet No 5, 6 and 7 and concurrently loop under storm sewer.
- Station 191+40 - End water main relocation past inlet No 5, 6 and 7.

See attached sketch on NDOR ROW drawing which has been marked up to show the segments of water line to be relocated.

There was specific discussion with the Lincoln Water System concerning the need to relocate the water line around storm sewer inlet No 16 and 17. It was concluded that the water line would not be relocated along this segment of roadway. The existing water is located at a greater depth than the proposed adjacent storm sewer improvements and existing telecommunication utilities occupy the existing corridor necessary to complete a relocation of the water line. Per previous discussion, the City of Lincoln would be responsible for any disturbance of the existing roadway improvements if in the future maintenance of the water line was required.

The relocation of the fire hydrant at station 187+50 will need to occur on a phased basis. Initially, the existing fire hydrant will be removed and the water main laid to the new location for the fire hydrant and will be capped. This will permit construction of the temporary paving as proposed by NDOR. Upon removal of the temporary paving, the new hydrant can be set according to the new paving construction.

It is requested that NDOR include in their special provisions for status of utilities the follow language. "Portions of the work for the installation of new storm sewer inlets and piping will be located near an existing Lincoln Water System 16 inch water main located along the alignment of the storm water improvements. Contractor shall notify Erika Nunes, Public Works and Utilities at 402 326-1037, 72 hours prior to commencement of the specified storm sewer installations. Contractor shall coordinate work

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along the water utility with Public Works and Utilities' on-site representative. The on-site representative is to be present on site during construction activity as determined by Lincoln Water System."

The existing water line which will no longer be in service will be abandoned in place with the ends capped after the carrier pipe has been filled with easy fill grout.

It is understood that there will be reimbursement from NDOR for the relocation of the water line. The City of Lincoln will pay ten (10) percent of the total project cost to relocate the water main and NDOR will reimburse the City for the remaining ninety (90) percent. Total anticipated project costs are summarized as follows; however, the City assumes reimbursement will be made based on actual project expenses.

- Engineering Design - \$60,000
- Construction - ~~\$175,000~~ *See attached revised estimate.*
- Construction Engineering - \$25,000

The current alignment for the relocation of the water line would suggest that there will be no need for additional tree removal or tree trimming than is shown for the NDOR project to complete the water line relocation and that ground cuts will not disturb a wetland or waterway.

If there are questions or comments concerning the proposed relocation, please contact Public Works & Utilities.

Sincerely,



Erika Nunes
Project Engineer

cc: Nick McElvain – Lincoln Water
Kent Prior – HDR Inc.

Enclosure

Exhibit "B"

Preliminary Opinion of Cost
 SW 40th Street Water Main Improvements
 NDOR Project No. HSOP-6-6(161)
 City of Lincoln Project No. 701718

Item No.	Description	Quantity	Units	Unit Cost	Extended Cost
01.00001	Mobilization	1	LS	\$ 15,000.00	\$ 15,000.00
01.01001	Construction Staking	1	LS	\$ 2,500.00	\$ 2,500.00
02.01001	General Clearing and Grubbing	1	LS	\$ 2,000.00	\$ 2,000.00
02.02012	Tree Removal (12" to 23")	2	EA	\$ 859.00	\$ 1,718.00
15.09001	Traffic Control for Const.	1	LS	\$ 1,695.00	\$ 1,695.00
20.09001	Conc for Thrust Blocks & Anchorages	12	CY	\$ 283.00	\$ 3,396.00
20.09002	Reinf Stl for Thrust Blocks & Anchorages	516	LBS	\$ 1.13	\$ 583.08
23.04101	Rem & Salvage Hydrant	3	EA	\$ 450.00	\$ 1,350.00
23.04103	Rem & Salvage Anchoring Coupling	3	EA	\$ 145.00	\$ 435.00
23.04105	Rem & Salvage Gate Valve & Box	3	EA	\$ 250.00	\$ 750.00
23.04122	Rem Plug	1	EA	\$ 100.00	\$ 100.00
23.07006	Water Main, 6"	38	LF	\$ 54.80	\$ 2,082.40
23.07016	Water Main, 16"	401	LF	\$ 146.00	\$ 58,546.00
23.07072	Anchoring Coupling, MJ (L=18"), 6"	4	EA	\$ 250.00	\$ 1,000.00
23.07113	Deg Bend, MJ, 16" X 45	8	EA	\$ 2,966.00	\$ 23,728.00
23.07506	Solid Sleeve, MJ (L=12"), 6"	1	EA	\$ 250.00	\$ 250.00
23.07516	Solid Sleeve, MJ (L=15"), 16"	4	EA	\$ 500.00	\$ 2,000.00
23.07706	Plug, MJ, 6"	1	EA	\$ 280.00	\$ 280.00
23.07806	Retainer Glands, MJ, 6"	7	EA	\$ 146.00	\$ 1,022.00
23.07816	Retainer Glands, MJ, 16"	28	EA	\$ 480.00	\$ 13,440.00
23.08006	Gate Valve, MJ, 6"	3	EA	\$ 950.00	\$ 2,850.00
23.08116	Butterfly Valve, MJ, 16"	2	EA	\$ 6,780.00	\$ 13,560.00
23.08355	Hydrant, L=5.5'	1	EA	\$ 2,400.00	\$ 2,400.00
23.08365	Hydrant, L=6.5'	2	EA	\$ 2,400.00	\$ 4,800.00
23.08400	Hydrant Extension	1	EA	\$ 1,000.00	\$ 1,000.00
23.09001	Temporary Hydrant and Blow-Off	2	EA	\$ 2,000.00	\$ 4,000.00
23.11001	Abandonment of Water Main	1	LS	\$ 5,650.00	\$ 5,650.00
30.07002	Seeding, Ty "B"	0.58	AC	\$ 2,712.00	\$ 1,572.96

Exhibit "B"

Preliminary Opinion of Cost
 SW 40th Street Water Main Improvements
 NDOR Project No. HSOP-6-6(161)
 City of Lincoln Project No. 701718

Item No.	Description	Quantity	Units	Unit Cost	Extended Cost
32.02001	Synthetic Fabric Silt Fence Installation	685	LF	\$ 3.20	\$ 2,192.00
32.02002	Synthetic Fabric Silt Fence Maintenance	685	LF	\$ 1.20	\$ 822.00
32.02003	Synthetic Fabric Silt Fence Removal	685	LF	\$ 1.00	\$ 685.00
32.05101	BD ECB, Type I	465	SY	\$ 3.20	\$ 1,488.00
32.08001	Rock Ditch Check Inst	12	LF	\$ 50.00	\$ 600.00
32.08002	Rock Ditch Check Maint	12	LF	\$ 20.00	\$ 240.00
32.08003	Rock Ditch Check Rem	12	LF	\$ 15.00	\$ 180.00
32.09001	Composite Filter Sock Inst	375	LF	\$ 5.50	\$ 2,062.50
32.09002	Composite Filter Sock Maint	375	LF	\$ 1.50	\$ 562.50
32.09003	Composite Filter Sock Rem	375	LF	\$ 1.30	\$ 487.50
50.00001	Deg Bend, MJ x PE, 6" x 90	1	EA	\$ 2,514.00	\$ 2,514.00
	subtotal				\$ 179,541.94
	Contingency (15%)				\$ 26,931.29
	Total				\$ 206,473.23

Exhibit "B"

Project Name: US-6/W40th Street, Lincoln
Project Number: HSIP-6-6(161)
Control Number: 13093

Summary of Costs:

Construction:	\$206,473.23
Engineering Design:	\$60,000.00
Construction Engineering:	\$25,000.00
Subtotal:	\$291,473.23
State's share (90%)	\$262,325.91
City's share (10%)	\$29,147.32

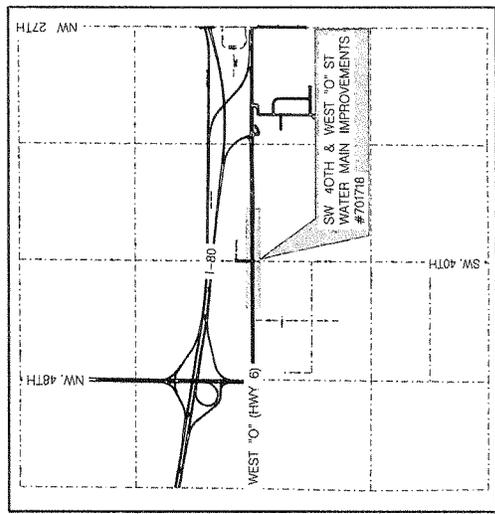
Recommended
<i>Brandi Aram</i>
Date <u>12/09/2013</u>
Approved
<i>[Signature]</i>
Date <u>12/9/2013</u>

Exhibit "B"

CITY OF LINCOLN, NE (2014)
SW 40TH & WEST "O" STREET WATER MAIN RELOCATION
PROJECT NO. 701718 (CITY OF LINCOLN)

SHEET INDEX

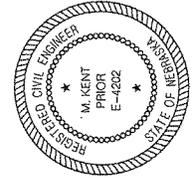
SHT NO.	COVER
1	SUMMARY OF QUANTITIES
2	GENERAL NOTES
3	HORIZONTAL CONTROL
4	SEDIMENT AND EROSION CONTROL
5	WATER MAIN PLAN AND PROFILE
6-7	



PRIOR TO CONSTRUCTION:

CALL 1-800-331-5666 OR 811 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLEVISION AND CITY OF LINCOLN UTILITIES.

NOTE: EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO EXACTLY LOCATE AND PROTECT EACH EXISTING UTILITY BEFORE AND DURING ACTUAL CONSTRUCTION.



APPROVED FOR CONSTRUCTION

- PROJECT CONTACT**
- ENGINEERING SERVICES:**
 - 901 WEST BOND STREET, SUITE 100
LINCOLN, NE 68501
ATTN: EMMA NURES...402-526-1037
 - ENGINEERING OPERATIONS:**
 - 801 NORTH 8TH STREET
LINCOLN, NE 68508
ATTN: SCOTT OFFER...402-441-7851
 - LINCOLN ELECTRIC SYSTEM:**
 - P.O. BOX 89899
LINCOLN, NE 68501
 - LINCOLN WATER SYSTEM:**
 - 2021 N. 27th ST.
LINCOLN, NE 68503
PHONE: (402) 441-5925
 - LEVEL (S) COMMUNICATIONS:**
 - MATT WILLIAMS
1025 ELDORADO BLVD., 33A-523
BROOMFIELD, CO 80021
PHONE: (720) 888-3815
EMAIL: MATTHEW.WILLIAMS@LEVEL.COM
 - BLACK HILLS ENERGY:**
 - RANDY KREIFELS
1600 WINDHOEK DR.
LINCOLN, NE 68512
PHONE: (402) 497-1715
EMAIL: HAN DY.KREIFELS@BLACKHILLS.COOP.COM
 - WINDSTREAM COMMUNICATIONS:**
 - WILLIAM P. LANGE
330 SOUTH 21
LINCOLN, NE 68501-1509
PHONE: (402) 499-4483
EMAIL: WILLIAM.P.LANGE@WINDSTREAM.COM
 - UNITE (UNITE):**
 - JOE MELVIN
1000 MASS. PL. SUITE B
LINCOLN, NE 68502
PHONE: (402) 317-4787
EMAIL: JOE.MELVIN@UNITE.COM
 - TIME WARNER CABLE:**
 - TERRY WRODOSKY
5000 N. LINCOLN
LINCOLN, NE 68512
PHONE: (402) 402-0384
EMAIL: TERRY.WRODOSKY@TWCABLE.COM

RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED OR REMOVED BY CONSTRUCTION TO THEIR ORIGINAL LOCATION AND CONDITION. SIDEWALKS, PAVING, BRICKS, FENCINGS, RETAINING WALLS, ETC., CROSSED BY THE WATERLINE ARE NOT ALL INDICATED IN PROFILE.

COORDINATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT OR RELOCATION OF ANY UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE OR OVERHEAD) REQUIRED FOR INSTALLATION OF THE WATERLINE AND OWNER OF EACH UTILITY BEFORE CONSTRUCTION IS STARTED.

REPLACE EXISTING PIPE CULVERTS THAT ARE REMOVED TO INSTALL THE WATERLINE WITH NEW PIPE CULVERTS OF THE SAME SIZE, MATERIAL AND CONSTRUCTION AT THE SAME LOCATION AND INFERIOR ELEVATION AS THOSE THAT WERE REMOVED. NEW PIPE CULVERTS SHALL BE INSTALLED WITH PROTECTIVE ENDINGS AND REPLACEMENT OF ANY CULVERTS WITHIN PUBLIC RIGHT-OF-WAY WITH THE JURISDICTIONAL AGENCY.

PROTECTION OR REMOVAL OF TREES, PLANTS, AND LANDSCAPING IS TO BE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED INCLUDING COMPLYING WITH THE CONDITIONS FOR EASEMENTS BETWEEN OWNER AND PROPERTY OWNER AND THE CONDITIONS OF THE MIGRATORY BIRD TREATY ACT.

SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, SHEETING AND SHORING AND SURFACE RESTORATION AT CERTAIN LOCATIONS ARE INDICATED ON THE DRAWINGS TO BRING CONTRACTOR'S ATTENTION TO SENSITIVE AREAS AND TO COORDINATE WITH THE CONDITIONS FOR EASEMENTS BETWEEN OWNER AND PROPERTY OWNER. SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, SHEETING AND SHORING AND SURFACE RESTORATION AT OTHER LOCATIONS AS REQUIRED BY CONTRACTORS' CONSTRUCTION OPERATIONS AND AS DIRECTED BY THE ENGINEER, SEE THE PROJECT REQUIREMENTS SECTION FOR ADDITIONAL REQUIREMENTS FOR WORKING ON PRIVATE PROPERTY.

HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT (SEE GENERAL NOTE 11) IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. ACTUAL PIPE LENGTH IS TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.

DEFLECTIONS FROM A STRAIGHT LINE ARE TO BE MADE WITH FITTINGS, DEFLECTED JOINTS, BEVEL JOINTS, SHORTER PIPE SECTIONS OR A COMBINATION OF THESE METHODS TO CONFORM TO THE ALIGNMENT AND CURVE DATA SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VALUES SPECIFIED FOR THE PIPE JOINT SUBMIT METHOD USED TO MEASURE DEFLECTION OF PIPE JOINTS.

HORIZONTAL CURVES ARE TO BE INSTALLED IN ACCORDANCE WITH THE PRELIMINARY ALIGNMENT CURVE DATA SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOINT LOCATION AND THE HORIZONTAL ALIGNMENT CURVE INDICATED ON THE DRAWINGS.

REFER TO CHAPTER 32 - SOIL EROSION CONTROL IN THE CITY OF LINCOLN STANDARD SPECIFICATIONS THESE REQUIREMENTS.

THE ABBREVIATIONS SHEET AND GENERAL LEGENDS SHEET HAVE A LIST OF ABBREVIATIONS AND SYMBOLS AND SCREENED LIGHT DEFINITION DENOTES EXISTING FLAG POLES. SCREENED LIGHT INFORMATION WAS TAKEN FROM VERIFIED "BOLD" (DARK) DEVIATION IS FIELD SURVEY AND IS FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED. "BOLD" (DARK) DEVIATION IS WORK TO BE CONSTRUCTED UNDER THIS PROJECT.

ALL EXISTING ITEMS SHALL BE PROPERLY BRACED, SUPPORTED AND PROTECTED IN PLACE TO MAINTAIN THEIR EXISTING CONSTRUCTION AND INTEGRITY. TRENCHES SHALL BE SHEETED AND SHORED, AND SMALLER EQUIPMENT AND HAND EXCAVATION SHALL BE USED AS REQUIRED TO PROTECT EXISTING ITEMS. TRENCHES SHALL BE BACKFILLED WITH COMPACTED TRENCH BACKFILL BENEATH PAVEMENTS AS SPECIFIED. ALL EXISTING ITEMS SHALL BE PROTECTED AND SUPPORTED AS SPECIFIED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER ON THE CITY, ALL WORK WITHIN THE CITY IS TO BE IN COMPLIANCE WITH THE CITY OF LINCOLN STANDARD SPECIFICATIONS AND DRAWINGS.

THE TERM "PROPOSED" AS INDICATED ON THE DRAWINGS MEANS THE ITEM IS DESIGNED OR PLANNED BY OTHERS. THE TERM "FUTURE" AS INDICATED ON THE DRAWINGS REFERS TO THE ENGINEER'S BEST INTERPRETATION OF THE ITEM FOR THE FUTURE BASED ON AVAILABLE INFORMATION.

CONTRACTOR SHALL REMOVE RESERVE AND REPLACE TOPSOIL IN ALL AREAS MATERIALS SHALL BE REMOVED AND STOCKPILED ON SITE PRIOR TO STORING ANY CITY OF LINCOLN 2011 LSP AND SPECIFICATIONS SHALL BE USED WHERE APPLICABLE.

LOT CORNER
 RIGHT-OF-WAY
 EXISTING CONTROL ACCESS
 EXISTING PERMANENT EASEMENT
 EXISTING ROW
 PROPOSED PERMANENT EASEMENT
 PROPOSED ROW
 PROPOSED TEMPORARY EASEMENT
 EXISTING PERMANENT EASEMENT
 ROW IN TAKING
 TEMPORARY EASEMENT

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
 CRUSHED ROCK SURFACING
 EARTH
 RP RHP
 TACK ON MEDIAN

GENERAL NOTES:
 1. THESE GENERAL NOTES APPLY TO THE ENTIRE SET OF DRAWINGS. HOWEVER, SOME GENERAL NOTES OR PARTS THEREOF MAY NOT BE APPLICABLE ON THIS PROJECT.
 2. HORIZONTAL CONTROL COORDINATES ARE BASED ON SURVEY FOR NODR PROJECT US-6 / WEST 40TH STREET, LINCOLN PROJ. NO. HSP-5-6181) SEE GENERAL NOTE 3.
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SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

ELECTRIC MANHOLE
 ELECTRIC METER
 ELECTRICAL RISER
 GAS BLOW OFF
 GAS METER
 GAS VALVE
 GUY POLE
 GUY ANCHOR
 LIGHT POLE
 MONITORING WELL
 ORNAMENTAL LIGHT
 PULL BOX
 SPRINKLER CONTROL BOX
 SPRINKLER HEAD
 STORM DRAINAGE FLARED END SECTION
 STORM DRAINAGE GRATE INLET
 STORM DRAINAGE CURB INLET
 STORM DRAINAGE MANHOLE
 TELEPHONE BOX
 TELEPHONE PULL BOX
 TELEVISION/CABLE RISER BOX
 TRAFFIC SIGNAL
 TRAFFIC CONTROL BOX
 UTILITY POLE
 WASTE WATER MANHOLE
 WATER HYDRANT
 WATER BLOW OFF
 WATER MANHOLE
 WATER PRIVATE WELL
 WATER STOP BOX
 WATER VALVE
 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - SURVEY (LANDSCAPE)

BUSH - CONIFEROUS
 BUSH - DECIDUOUS
 BUSH - CONIFEROUS BUSH ROW
 BUSH - DECIDUOUS BUSH ROW
 STUMP - < 12"
 STUMP - 12" TO 23"
 STUMP - 24" TO 35"
 STUMP - > 35"
 TREE - CONIFEROUS 12" PERIMETER
 TREE - CONIFEROUS < 12"
 TREE - CONIFEROUS 12" TO 23"
 TREE - CONIFEROUS 24" TO 35"
 TREE - CONIFEROUS > 35"
 TREE - CONIFEROUS TREE LINE
 TREE - DECIDUOUS 12" PERIMETER
 TREE - DECIDUOUS < 12"
 TREE - DECIDUOUS 12" TO 23"
 TREE - DECIDUOUS 24" TO 35"
 TREE - DECIDUOUS > 35"
 TREE - DECIDUOUS TREE LINE

LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (NON SURVEYED UTILITIES)

GAS LINE
 ELECTRICAL SERVICE
 ELECTRICAL SERVICE OVERHEAD
 WASTE WATER
 STORM DRAINAGE
 WATER
 TELEPHONE LINE
 TELEPHONE LINE OVERHEAD
 FIBER OPTIC TELE. LINE
 TELEVISION/CABLE TV LINE
 TELEVISION/CABLE TV LINE OVERHEAD
 TRAFFIC SIGNAL

LEGEND - RIGHT-OF-WAY

LOT CORNER
 RIGHT-OF-WAY
 EXISTING CONTROL ACCESS
 EXISTING PERMANENT EASEMENT
 EXISTING ROW
 PROPOSED PERMANENT EASEMENT
 PROPOSED ROW
 PROPOSED TEMPORARY EASEMENT
 EXISTING PERMANENT EASEMENT
 ROW IN TAKING
 TEMPORARY EASEMENT

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
 CRUSHED ROCK SURFACING
 EARTH
 RP RHP
 TACK ON MEDIAN

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LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

ELECTRIC MANHOLE
 ELECTRIC METER
 ELECTRICAL RISER
 GAS BLOW OFF
 GAS METER
 GAS VALVE
 GUY POLE
 GUY ANCHOR
 LIGHT POLE
 MONITORING WELL
 ORNAMENTAL LIGHT
 PULL BOX
 SPRINKLER CONTROL BOX
 SPRINKLER HEAD
 STORM DRAINAGE FLARED END SECTION
 STORM DRAINAGE GRATE INLET
 STORM DRAINAGE CURB INLET
 STORM DRAINAGE MANHOLE
 TELEPHONE BOX
 TELEPHONE PULL BOX
 TELEVISION/CABLE RISER BOX
 TRAFFIC SIGNAL
 TRAFFIC CONTROL BOX
 UTILITY POLE
 WASTE WATER MANHOLE
 WATER HYDRANT
 WATER BLOW OFF
 WATER MANHOLE
 WATER PRIVATE WELL
 WATER STOP BOX
 WATER VALVE
 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
 CRUSHED ROCK SURFACING
 EARTH
 RP RHP
 TACK ON MEDIAN

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LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

ELECTRIC MANHOLE
 ELECTRIC METER
 ELECTRICAL RISER
 GAS BLOW OFF
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 GUY POLE
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 WATER STOP BOX
 WATER VALVE
 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
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 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
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 EARTH
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LEGEND - EROSION & SEDIMENT CONTROL

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 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

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 TELEPHONE PULL BOX
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 TRAFFIC CONTROL BOX
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 WATER HYDRANT
 WATER BLOW OFF
 WATER MANHOLE
 WATER PRIVATE WELL
 WATER STOP BOX
 WATER VALVE
 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
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LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

ELECTRIC MANHOLE
 ELECTRIC METER
 ELECTRICAL RISER
 GAS BLOW OFF
 GAS METER
 GAS VALVE
 GUY POLE
 GUY ANCHOR
 LIGHT POLE
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 SPRINKLER CONTROL BOX
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 STORM DRAINAGE MANHOLE
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 TELEPHONE PULL BOX
 TELEVISION/CABLE RISER BOX
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 TRAFFIC CONTROL BOX
 UTILITY POLE
 WASTE WATER MANHOLE
 WATER HYDRANT
 WATER BLOW OFF
 WATER MANHOLE
 WATER PRIVATE WELL
 WATER STOP BOX
 WATER VALVE
 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
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LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

ELECTRIC MANHOLE
 ELECTRIC METER
 ELECTRICAL RISER
 GAS BLOW OFF
 GAS METER
 GAS VALVE
 GUY POLE
 GUY ANCHOR
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 MONITORING WELL
 ORNAMENTAL LIGHT
 PULL BOX
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 WATER MANHOLE
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 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
 CRUSHED ROCK SURFACING
 EARTH
 RP RHP
 TACK ON MEDIAN

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LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

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 ELECTRIC METER
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 STORM DRAINAGE
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 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
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 FLOWLINE
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 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
 CRUSHED ROCK SURFACING
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 TACK ON MEDIAN

GENERAL NOTES:
 1. THESE GENERAL NOTES APPLY TO THE ENTIRE SET OF DRAWINGS. HOWEVER, SOME GENERAL NOTES OR PARTS THEREOF MAY NOT BE APPLICABLE ON THIS PROJECT.
 2. HORIZONTAL CONTROL COORDINATES ARE BASED ON SURVEY FOR NODR PROJECT US-6 / WEST 40TH STREET, LINCOLN PROJ. NO. HSP-5-6181) SEE GENERAL NOTE 3.
 3. EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH CONFIGURATIONS AND ELEVATIONS OF EXISTING UNDERGROUND POWER, TELEPHONE, FIBER OPTIC, CABLE, DUCTWAYS, SPRINKLER SYSTEMS, SEPTIC SYSTEMS, AND WATER, GAS AND SEWER SERVICE STRUCTURES MAY BE PRESENT. UNDERGROUND LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES AS FURNISHED APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN IN PROFILE.
 4. VERIFY PRECISE LOCATIONS AND ELEVATION OF ALL UTILITIES AND STRUCTURES IN ADVANCE OF EXCAVATING, TRENCHING OR TUNNELING. BY CONTACTING ALL UTILITIES AND OTHER AGENCIES AND BY OBTAINING ALL NECESSARY PERMITS AND ALIGNMENT AND GRADE CHANGES. THE FIELD DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ALIGNMENT AND GRADE CHANGES. ADDITIONAL REQUIREMENTS FOR DISCOVERY OF EXISTING UNDERGROUND AND ABOVE-GROUND UTILITIES AND STRUCTURES ARE SPECIFIED IN THE PROJECT REQUIREMENTS SECTION. THE SPECIFICATIONS NOTIFICATION OF UTILITIES AND OTHER AGENCIES IS TO BE AS SPECIFIED IN THE CONTRACT DOCUMENTS. SEE GENERAL NOTES 2 AND 3.

LEGEND - EROSION & SEDIMENT CONTROL

SYNTHETIC FABRIC SILT FENCE
 SEEDING
 SEEDING
 SODDING
 EROSION CONTROL MAT - STRAW
 EROSION CONTROL MAT - SYNTHETIC
 EROSION CONTROL MAT - BLEND

LEGEND - SURVEY (UTILITIES)

ELECTRIC MANHOLE
 ELECTRIC METER
 ELECTRICAL RISER
 GAS BLOW OFF
 GAS METER
 GAS VALVE
 GUY POLE
 GUY ANCHOR
 LIGHT POLE
 MONITORING WELL
 ORNAMENTAL LIGHT
 PULL BOX
 SPRINKLER CONTROL BOX
 SPRINKLER HEAD
 STORM DRAINAGE FLARED END SECTION
 STORM DRAINAGE GRATE INLET
 STORM DRAINAGE CURB INLET
 STORM DRAINAGE MANHOLE
 TELEPHONE BOX
 TELEPHONE PULL BOX
 TELEVISION/CABLE RISER BOX
 TRAFFIC SIGNAL
 TRAFFIC CONTROL BOX
 UTILITY POLE
 WASTE WATER MANHOLE
 WATER HYDRANT
 WATER BLOW OFF
 WATER MANHOLE
 WATER PRIVATE WELL
 WATER STOP BOX
 WATER VALVE
 WATER YARD HYDRANT
 STORM DRAINAGE
 WASTE WATER
 WATER

LEGEND - SURVEY (MISC.)

BENCHMARK
 BORING
 FENCE - ROW OR WIRE
 FENCE - CHAIN LINK
 FENCE - PICKET/PRIVATE OR SPLIT RAIL
 FLOWLINE
 GUARDRAIL
 HEAD STONE
 MAILBOX
 RAILROAD CROSSING SIGNAL
 RAILROAD SWITCH
 RAILROAD TRACKS
 RETAINING WALL
 SIGN
 WATER EDGE

LEGEND - PROPOSED (MISC.)

PROPOSED LOG - CUT
 PROPOSED LOG - FILL
 ASPHALT SURFACE
 CONCRETE DRIVEWAY
 CONCRETE PAVEMENT
 CONCRETE SIDEWALK
 CRUSHED ROCK SURFACING
 EARTH
 RP RHP
 TACK ON MEDIAN

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HDR
 HERS, ENGINEERS, INC.
 1114 S. 11th St.
 Lincoln, NE 68502
 (402) 441-1111

PROJECT NO.	1114S1111
SHEET NO.	1114S1111
DATE	11/11/11
DESIGNED BY	MLK
CHECKED BY	MLK
IN CHARGE	MLK

NTS.

WEST 'O' STREET CENTERLINE

① P.O.B. STA. 180+00 - \odot WEST 'O' STREET.
 N=372.835,34 E=2,532,048.81

② P.I. STA. 187+42.21 - \odot WEST 'O' STREET
 N=372.856,02 E=2,532,748.38

③ P.O.E. STA. 192+00 - \odot WEST 'O' STREET
 N=373.985,04 E=2,532,663.94



P.O.B. STA. 180+00
 WEST 'O' STREET \odot

P.I. STA. 187+42.21
 WEST 'O' STREET \odot

P.O.E. STA. 192+00
 WEST 'O' STREET \odot

EXISTING MONUMENTS:

A KURRH (1979)
 CONC. MON. & BRASS CAP
 E=2532771.63
 EL.=4218.11

B CP 386-134
 2" SURVEY SPINE
 E=2532780.25
 EL.=4196.71



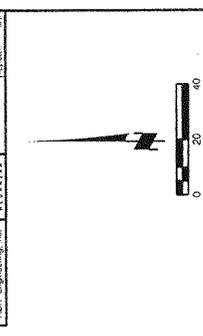
HORIZONTAL AND VERTICAL CONTROL
 118-B-39

118-B-39

FHR
 FHR CONSULTING, INC.
 1111 1/2 ST. N.
 WYOMING, WY 82001

CITY OF URBAN
 PROJECT NO. 11111111
 SHEET NO. 11111111

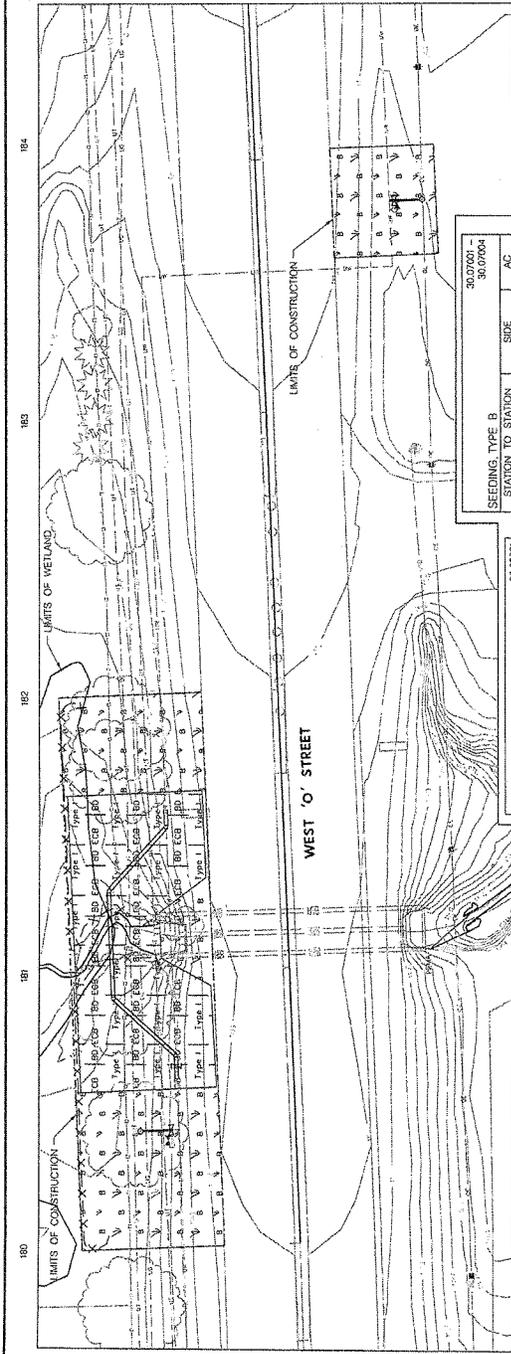
DATE: 11/11/11
 DRAWN BY: J. B. [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]



CONTRACTOR SHALL MINIMIZE CONSTRUCTION IMPACTS TO THE WETLANDS AREA. AS A MINIMUM, CONTRACTOR SHALL LIMIT EXCAVATION AND DISTURBANCE BY USE OF A TRACKED EXCAVATOR. CONTRACTOR SHALL PROTECT EXISTING TREES AND VEGETATION TO THE GREATEST EXTENT POSSIBLE.

INSTALL SYNTHETIC FABRIC SILT FENCE

STATION TO STATION	SIDE	LF
189+00 - 181+10	L.T.	150
191+15 - 182+00	L.T.	150
183+24 - 189+10	R.T.	350
189+15 - 182+10	R.T.	250



INSTALL COMPOSITE FILTER SOCK (12")

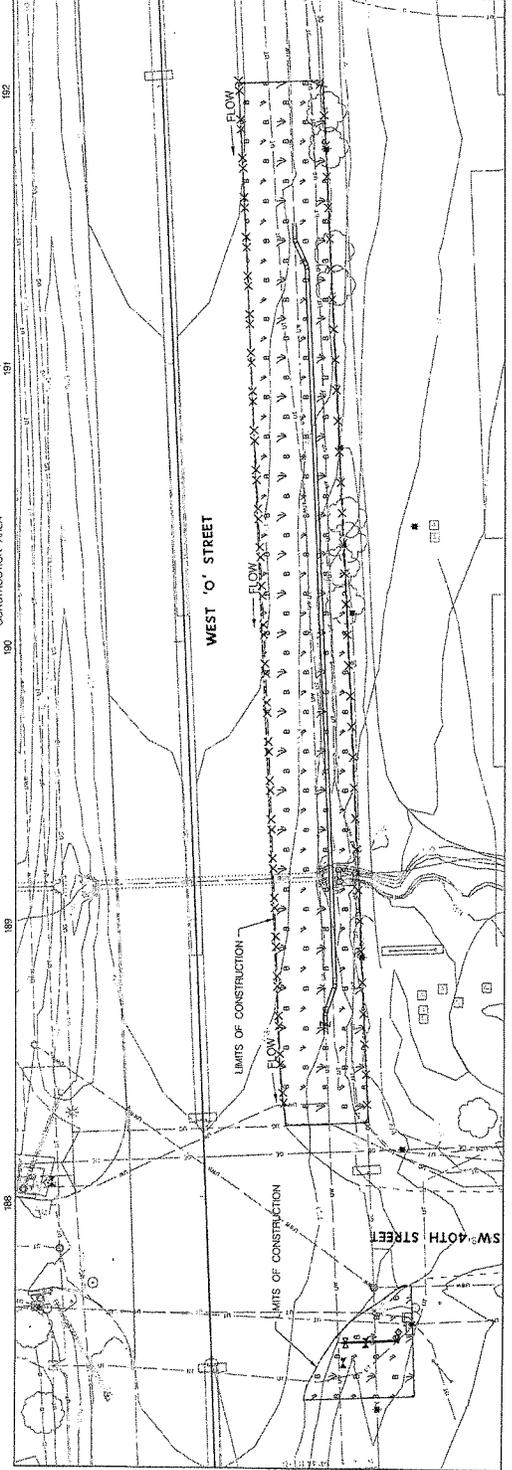
STATION TO STATION	SIDE	LF
189+14 - 182+10	R.T.	250

INSTALL ROCK DITCH CHECK

STATION TO STATION	SIDE	LF
188+13	R.T.	12

TYPE BD ECB

STATION TO STATION	SY	LF
187+37 - 187+25	465	465



PROJECT: [unreadable]
 DATE: 11/11/11
 DRAWN BY: J. B. [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]

11111111

HDR
 HEADQUARTERS
 1000 RIVER STREET
 SUITE 100
 FORT WORTH, TEXAS 76102
 TEL: 817.339.3800
 FAX: 817.339.3801
 WWW.HDR.COM

230700 - 230700

STATION	OFFSET	SIZE	CONC. (CY)	STEEL (LB)
180+42.36	55.8 LT.	6"	0.6	16.7
180+60.00	41.9 LT.	16"	1.4	45.4
180+68.30	42.2 LT.	16"	0.9	46.9
180+91.07	63.9 LT.	16"	0.9	46.9
181+30.13	63.9 LT.	16"	0.9	46.9
182+74.47	55.6 RT.	6"	0.6	16.7

230700 - 230700

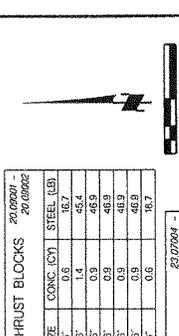
NO.	STATION	STATION	SIZE	LF	EA
1	180+42.36	181+57.66	16"	115	1

230700 - 230700

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230700 - 230700

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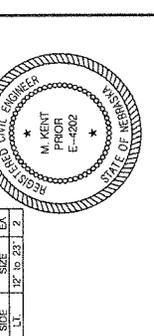
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1	180+42.36	181+57.66	16"	115	1

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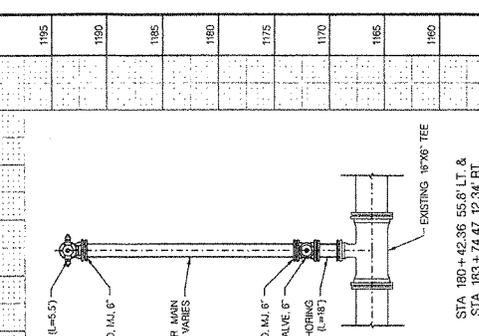
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1	180+42.36	181+57.66	16"	115	1

WEST "O" (HWY 6)
 ABANDON 85 LF OF 16" WATER MAIN
 FILL AND PLUG WITH FLOWABLE FILL
 LIMITS OF CONSTRUCTION
 LIMITS OF WETLANDS
 SEE NOTE ON SHEET 5

230700 - 230700

NO.	STATION	STATION	SIZE	LF	EA
1	180+42.36	181+57.66	16"	115	1

230700 - 230700

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WATER MAIN PLAN AND PROFILE
 11E-3-23

